

Title (en)

Rod antenna control system for automobiles.

Title (de)

Steuerungssystem für elektr. angetriebene Kraftfahrzeugantenne.

Title (fr)

Système de commande pour antenne actionnée électriquement pour véhicules automobiles.

Publication

EP 0324281 A2 19890719 (EN)

Application

EP 88312394 A 19881229

Priority

JP 427588 A 19880111

Abstract (en)

A rod antenna control system for automobiles wherein electric current is supplied continuously to a motor (20) which pushes up an antenna rope when a current below a predetermined value is flowing to the motor (20), and the current is supplied intermittently to the motor (20) via switching circuit (15) when it is detected at a comparator (14) that a current above a predetermined value flows to the motor (20), and whether or not the electric current is over or below the predetermined value is determined by using an integrating circuit (12) integrating the motor current for certain period of time and the comparator (14) comparing such integrated value to the predetermined value.

IPC 1-7

H01Q 1/10

IPC 8 full level

B60R 11/02 (2006.01); **H01Q 1/10** (2006.01)

CPC (source: EP US)

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Cited by

EP0520859A1; FR2678375A1; US5279165A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0324281 A2 19890719; **EP 0324281 A3 19900425**; **EP 0324281 B1 19941207**; DE 3852387 D1 19950119; DE 3852387 T2 19950511; JP H01180101 A 19890718; JP H0748609 B2 19950524; US 4950091 A 19900821

DOCDB simple family (application)

EP 88312394 A 19881229; DE 3852387 T 19881229; JP 427588 A 19880111; US 29336389 A 19890104